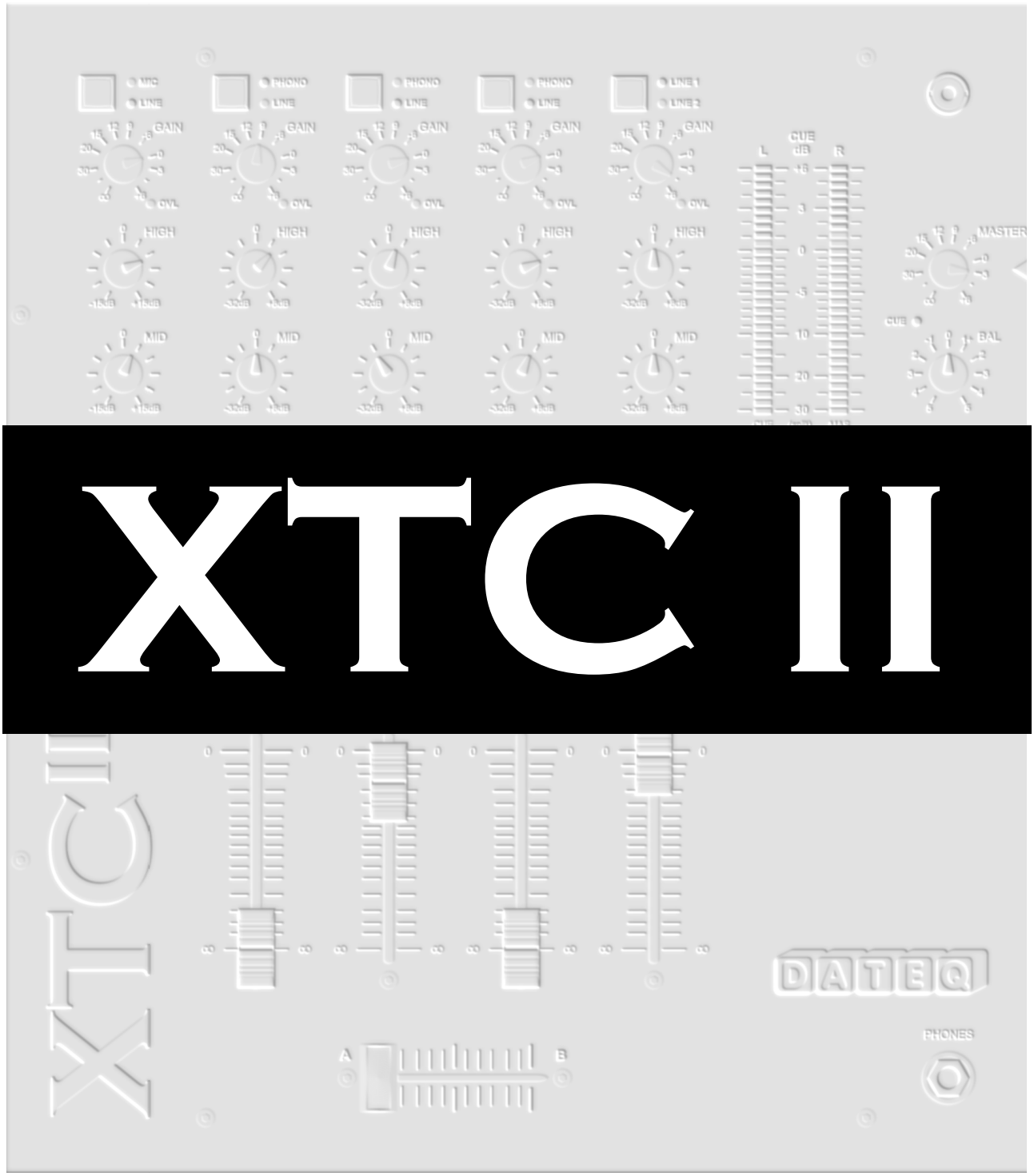


XTC II

DATEQ Audio Technologies B.V.
De Paal 37
1351 JG Almere
The Netherlands

www.DATEQ.nl

Safety instructions

1. All safety instructions, warnings and operating instructions must be read first.
2. All warnings on the equipment must be heeded.
3. The operating instructions must be followed.
4. Keep the operating instructions for future reference.
5. The equipment may never be used in the immediate vicinity of water; make sure that water and damp cannot get into the equipment.
6. The equipment may only be installed or fitted in accordance with the manufacturers recommendations.
7. The equipment must be installed or fitted such that good ventilation is not obstructed in any way.
8. The equipment may never be installed in the immediate vicinity of sources of heat, such as parts of heating units, boilers, and other equipment that generates heat (including amplifiers).
9. Connect the equipment to a power supply of the correct voltage, using only the cables recommended by the manufacturer, as specified in the operating instructions and/or shown on the connection side of the equipment.
10. The equipment may only be connected to a legally approved earthed mains power supply.
11. The power cable or power cord must be positioned such that it cannot be walked on in normal use, and objects that might damage the cable or cord cannot be placed on it or against it. Special attention must be paid to the point at which the cable is attached to the equipment and where the cable is connected to the power supply.
12. Ensure that foreign objects and liquids cannot get into the equipment.
13. The equipment must be cleaned using the method recommended by the manufacturer.
14. If the equipment is not being used for a prolonged period, the power cable or power cord should be disconnected from the power supply.
15. In all cases where there is a risk, following an incident, that the equipment could be unsafe, such as:
    - if the power cable or power cord has been damaged
    - if foreign objects or liquids (including water) have entered the equipment
    - if the equipment has suffered a fall or the casing has been damaged
    - if a change in the performance of the equipment is noticed

    Appropriately qualified technical staff must check it.
16. The user may not carry out any work on the equipment other than that specified in the operating instructions.

DATEQ audio technologies

Introduction

The DATEQ XTC II is a battle mixer with some unique additional functions.

The XTC II has five channels: four fader channels, and one separate microphone channel.

Various sources like CD-players, computers and turn-tables can be connected to the fader channels.

The XTC II has four 60mm ALPS faders to make very fast mixes. All faders are VCA-controlled.

The tone-controls are tuned for the DJ: sparkling high, a clear mid and a groovy bass. All frequency bands have a range from -32dB to +8dB. This makes it possible to attenuate certain frequencies almost completely.

Besides the equalisers, two filter-banks are included. Some very spectacular effects can be created with these filters. The two filters can be linked to make some very astonishing mixes!

Furthermore the XTC II is equipped with a digital routing circuitry. This digital router makes it possible to connect an effect processor in a very flexible way.

The dual headphones connector has a split-function to listen to the mix and the CUE signal simultaneously.

The master outputs are on cinch and on balanced XLR connectors.

Optional 19-inch brackets are available to make it possible to mount the XTC II into a 19-inch rack. Contact your dealer to obtain the brackets.

Product support

If you have any questions about the DATEQ XTC II or any other DATEQ products please contact:

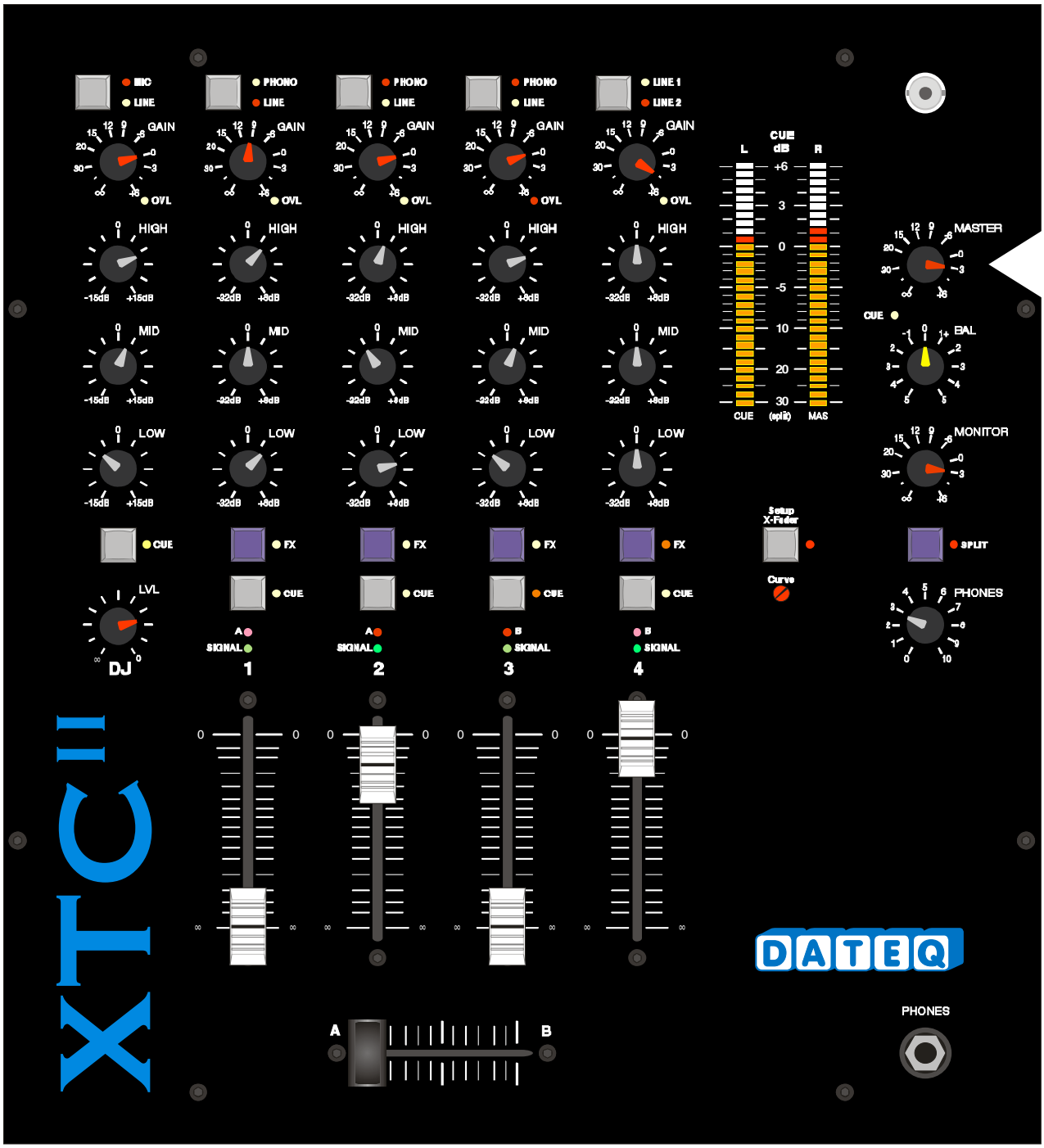
DATEQ Audio Technologies
De Paal 37
1351 JG Almere
The Netherlands

Phone: +31 36 5472222
Fax: +31 36 5317776

Internet: www.dateq.nl
E-mail: info@dateq.nl

DATEQ XTC II: A new version of the XTC a standard in the battle scene

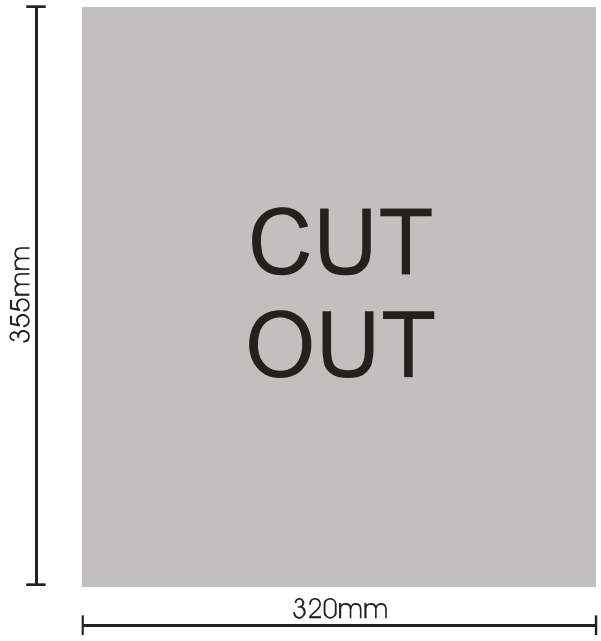
The new DATEQ XTC II is the perfect tool for the every DJ. Multifunctional, but still easy-to-use. This manual reveals all it's characteristics and secrets....

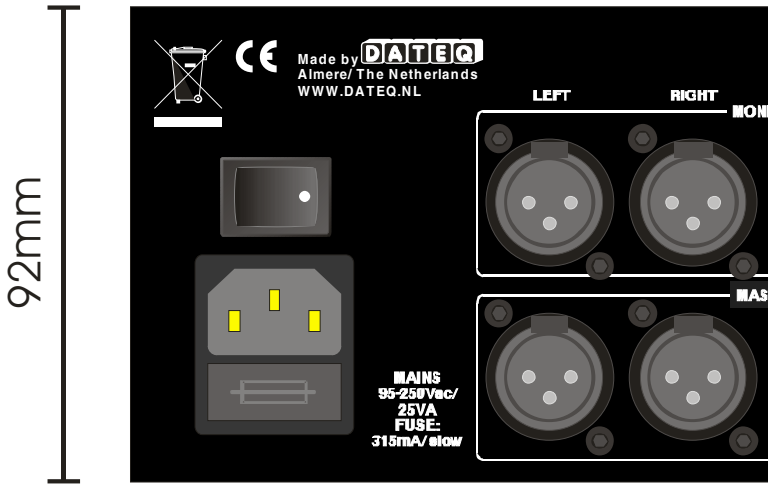


Installation

The DATEQ XTC II can be mounted into a table, but it can also be use stand-alone. Optionally 19-inch brackets are available to mount the XTC II into a 19-inch rack. Don't forget to leave some space for the connectors at the back of the XTC II.

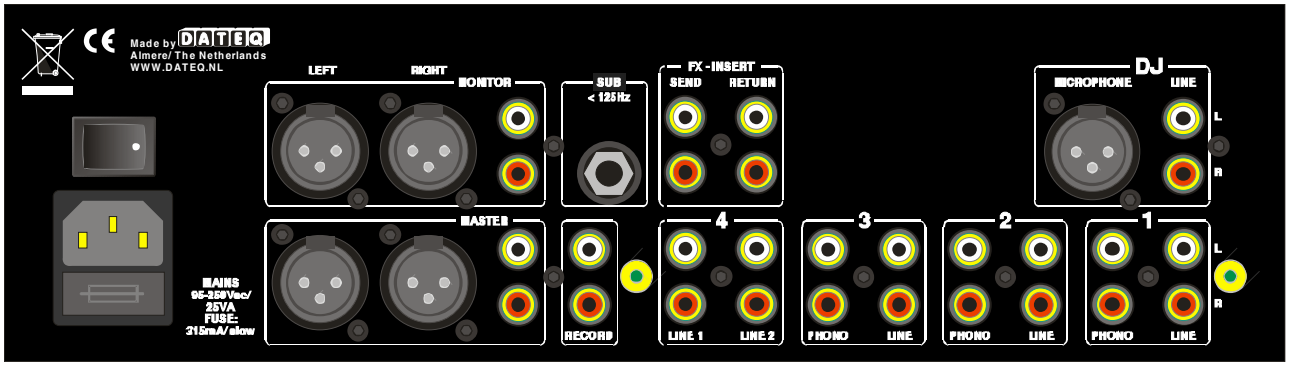
The measurements can be found in the drawings below.





Connecting the XTC II

All connections can be made at the rear and the front of the XTC II. Below we will explain the function of the connectors.



Connecting

Master left/ right	The electronically balanced XLR outputs guarantee a perfect audio quality, even with long cable runs. The same signal is available at the unbalanced cinch connectors.
Monitor output	The electronically balanced XLR outputs guarantee a perfect audio quality, even with long cable runs. The same signal is available at the unbalanced cinch connectors. This output can be used to connect a monitor amplifier. This output has the same mix as the master outputs, but it has it's own volume control. Internal jumper settings make it possible to eliminate the microphone signal from the monitor outputs. This prevents an acoustical feedback.
Record output	A recorder, for example a computer, can be connected to this output. The record output has the same signal as the master outputs, without a volume control.
Sub output	A extra amplifier for Bass-speakers can be connected to this output. The record output has the same signal as the master outputs.
FX Effect insert send	Connection to input external effect-device. When on a channel FX is chosen it pre-fader signal is available here.
FX Effect insert return	Connection from output external effect-device. When on a channel FX is chosen the connected return signal will be available on its fader.
Line/ line 1/ line 2	Connection for audio sources at line-level, like CD-players, computers, MD-players, DVD-players etc.
Phono	Connection for turn-tables. The turntable can be earthed with the earth connectors at the rear.
Microphone	Input for a dynamical microphone.
Gain	Microphone pre-gain setting.
Phones	Output for headphones.

Left/ right master outputs (XLR 3-pin male)

Pin	Function	Type
1	Audio ground	GND
2	Audio +	Output
3	Audio -	Output

Master/ monitor/ record/ effect(FX)- send outputs (cinch)

Pin	Function	Type
Tip	Audio +	Output
Shield	Audio ground	GND

Sub out (6.3mm jack)

Pin	Function	Type
Tip	Audio mono	Output
Ring	-	-
Shield	Audio ground	GND

Effect Effect(FX)- return/ line/ line 1/ line 2/ phono inputs (cinch)

Pin	Function	Type
Tip	Audio +	Input
Shield	Audio ground	GND

Chain in (6.3mm jack)

Pin	Function	Type
Tip	Audio left	Input
Ring	Audio right	Input
Shield	Audio ground	GND

Microphone input (XLR 3-pin female)

Pin	Function	Type
1	Audio ground	GND
2	Audio +	Input
3	Audio -	Input

Phones output (6.3mm jack)

Pin	Function	Type
Tip	Audio links	Output
Ring	Audio rechts	Output
Shield	Audio ground	GND

Operation

Microphone channel

Besides the four fader channels the XTC II is equipped with a extra microphone channel. This DJ channel uses a volume potmeter (LVL) instead of a fader.

The microphone input comes with a (low-voltage) phantome supply, controlled by a internal jumpersetting.

To prevent from an acoustical feedback it is possible to filter out the microphones signal (Cleanfeed) from the monitor speakers. This controlled by internal jumpersettings.

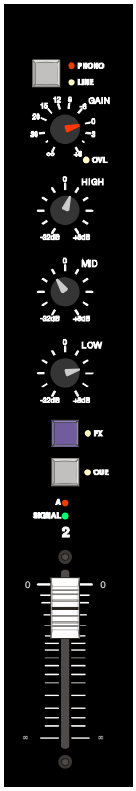
Both a microphone and a line-source can be connected to the back as well as the front and selected with the input source selector (top button).

This channel has a 3-way tone control. All the equalisers have a +/- 15dB range.

The overload detector (OVL) for input and pre-fader is situated on the front-panel.

Pre-fade listening is controlled by the CUE-switch.

Fader channels



The XTC II has four identical fader channels. The first three can be connected to a stereo line source, and a turntable. The fourth channel can be connected to two stereo line sources. The source can be selected with the input-source selectors (top switch) The three phono-level channels can be changed to line-level by internal jumper settings.

The three-way tone control ranges from -32dB ... +8dB. This means that certain frequencies will be almost completely suppressed when the equaliser is set to a minimum.

With the FX effect button it is possible to route a channel very quickly to the connected effect device. Pushing the *effect* button sends the pre-fader signal to the effect unit. The processed signal (so with the effect) becomes available at the channels fader and can be added to the mix.

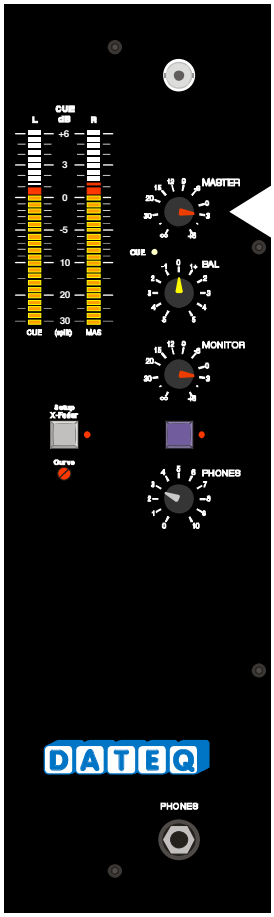
If the effect return signal is NOT present the XTC II 's own send signal is being used instead, shown by a blinking FX indicator.

Pre-fade listening is controlled by the CUE-switch. This will feed the channel pre-fade or effect return signal depending on the FX button

Just above the fader there are indicators for cross fader routing and source signal presence.

Note: for all jumper settings see the Setup chapter.

Master section



The XTC II master section holds a 2x30 segmented VU-meter showing the master mix or cue level accurately.

The master volume control can adjust the master-mix volume. The balance adjusts the master left-right balance.

The monitor control adjusts the volume of the monitor speakers. This is completely independent of the master volume and balance settings.

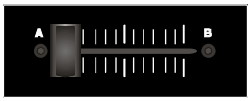
The Phones control adjusts the volume for the headphones. The SPLIT button controls the split button, its status shown by the front indicator.

Split ON means that the left channel holds the mono Cue signal and the right channel the mono Master signal, audible on the headphones as well as visible on the VU-meter.

Split OFF means that both the left and right channel hold the Cue signal, audible on the headphones as well as visible on the VU-meter.

The headphone signal is available on the top as well as the front connector.

Cross fader



The Cross(X) fader function can be routed to any fader channel and can be disabled by means of the Setup-Xfader button.

Channel 2 and 3 can be routed to the left (A) side and channel 4 and 5 can be routed to the right (B) side of the cross fader. (see the Setup chapter).

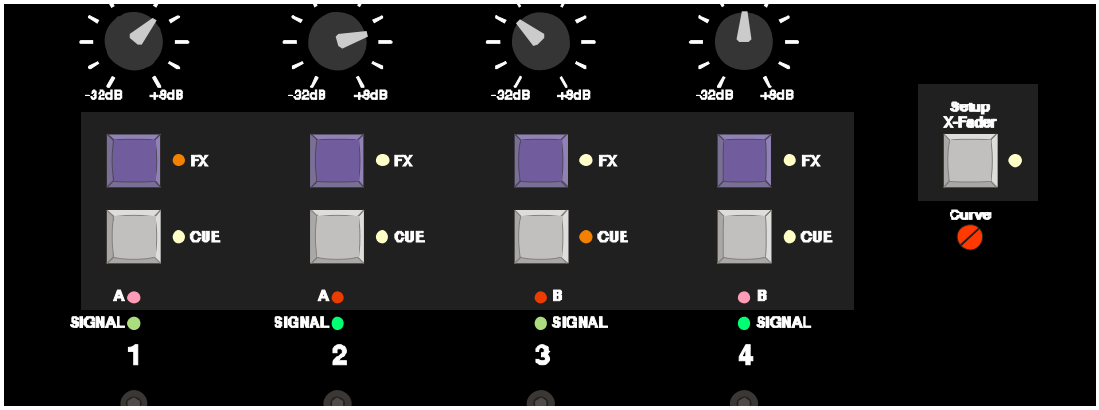
The X-fader has a fully adjustable curve, with which the operational range can be trimmed from super short (5mm) to full fader-lenght and everything in between, controlled by the red CURVE trimpot.

Software setup

Because the XTC II is a digitally controlled mixer it is possible to adjust some user settings. Before settings can be adjusted, the *setup-mode* has to be accessed.

In order to activate the setup-mode the *setup*-button has to be pressed together with the to be adjusted setting. The LED besides the setup-button will light-up solid.

Some LEDs on the front will light up, or start to blink. These LEDs indicate the functions that can be adjusted, and their status (enabled or disabled). A blinking LED means that the function is disabled; a solid LED means that a function is enabled. Releasing of the setup-button will end the setup-mode and the settings will be stored.



In table below the adjustable settings are summed up.

LEDs	Possible status	Adjust with	Setting description	
Crossfader routing: A-1, A-2, B-3, B-4	Solid/ blink	CUE-1,2,3,4 button	Solid: Blink: **All 4 blink:**	active routing No routing for this channel **Crossfader is disabled**
Limiter FX-1	Solid/ blink/ Off	FX-1 button	Solid: Blink: Off:	The limiter is enabled. The limiter is disabled The limiter is enabled by hardware, and can not be disabled in setup-mode (Limiter-lock).

Limiter

The XTC II has a build-in limiter. As soon as the output level of the console crosses the +6dB threshold, the limiter will respond with slowly decreasing the level. This way a good the quality and dynamics of the audio signal will be guaranteed for a longer period, and the connected apparatuses will be protected against overload conditions.

The limiter can be enabled and disabled in setup-mode. However it is also possible to apply an internal hardware link by which the Limiter can no-longer be disabled (Limiter-lock).

Jumper settings

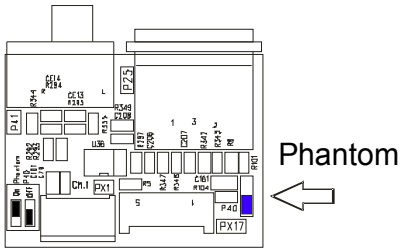
!! To be able to reach the internal jumpers the AC-cord has to be disconnected from the mains first. Then the 8 torx screws of the front panel can be unscrewed and the front panel can be flipped open gently .

MIC Phantom voltage

Inside left, at the back, on the top board the Mic-Phantom jumper is situated. This controls the phantom voltage:

ON is top position,

OFF is the bottom position.

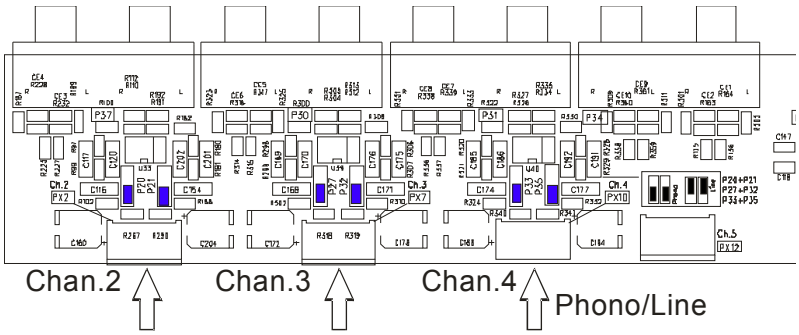


Phono / Line select

Inside, at the back, on the bottom board the Phono/line jumpers are situated. These control the input sensitivity of channel 2,3 and 4:

LINE is the top position,

PHONO is the bottom position.



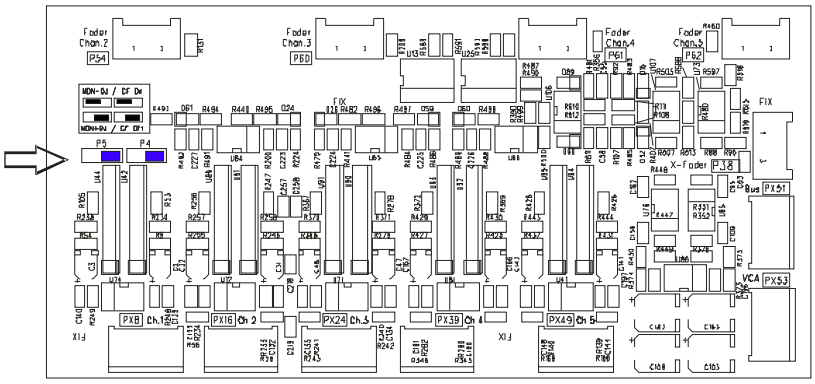
DJ Cleanfeed

On the VCA-board mounted at the back of the Main-board (front) the Cleanfeed DJ jumpers are situated. These jumpers control the DJ signal to be filtered out of the monitor *ON*, or not *OFF*:

CF-OFF is the right position(2x),

CF-ON is the left position (2x).

Cleanfeed DJ



Limiter lock

At the back of the Main-board (front) under the VU-meter the limiter-lock option named “Lock” is situated. The 2 pins “ON” control this option:

ON is linked,

OFF is open.

!! The front panel can now be closed gently and the 8 torx screws fastened. Then the AC-cord can be connected to the mains.

Technical specifications

Microphone channel

MIC Input..... XLR-3 female; balanced
- Signal level..... -50dB @ 600 ohm
- Impedance..... 3kOhm
- Input noise..... <-108dB
- Headroom..... +36dB
- Phantom voltage..... 15V

LINE Input..... Cinch
- Signal level..... 0dB
- Impedance..... 22kOhm
- Input noise..... <-80dB

Other channels

Line/ line 1/ line 2..... Cinch
- Signal level..... 0dB
- Impedance..... 22kOhm
- Input noise..... <-80dB

Phono..... Cinch
- Signal level..... -42dB
- Impedance..... 47kOhm/ 25pF
- Input noise..... <-80dB

Master

MASTER/ MONITOR/ RECORD/
AUX/ EFFECT SEND..... Cinch
- Signal level..... 0dB
- Impedance..... 330ohm

MASTER/ MONITOR..... XLR-3 male; balanced
- Signal level..... +6dB
- Impedance..... 330Ohm
- Input noise..... <-80dB

EFFECT RETURN
- Signal level..... 0dB
- Impedance..... 22kOhm
- Input noise..... <-80dB

Tone control

MICROPHONE CHANNEL..... three-way tone control
- LOW..... +/- 15dB @ 150Hz
- MID..... +/- 15dB @ 1kHz
- HIGH..... +/- 15dB @ 6kHz

FADER CHANNEL..... three-way tone control
- LOW..... -32/ +8dB @ 50Hz
- MID..... -32/ +8dB @ 1kHz
- HIGH..... -32/ +8dB @ 12kHz

Frequency response

- Microphone to master..... 20Hz – 20kHz @ -3dB
- Faderchannels to master..... 5Hz – 40kHz @ -3dB

Distortion

- THD+N..... 0.05% IEC-A nominal operation
- IMD..... 0.08%
- CROSSTALK..... >75dB @ 1kHz
- NOISE..... -80dB

Common

- Power supply..... 100 – 250Vac/ 50 - 60Hz
- Power consumption..... 25W
- Lamp connector..... 12Vdc/ 3W

- Front..... 320x354mm
- Height..... 8HE
- Depth..... 92mm
- Weight..... 4.5kg

Dateq Audio Technologies B.V. reserves the right to amend specifications without notice

EG-VERKLARING VAN OVEREENSTEMMING acc.to art.10.1 EMC directive 89/336/EEC

Wij, **DATEQ Audio Technologies b.v.**
de Paal 37,
1351 JG ALMERE,
Nederland

verklaren, uitsluitend op onze verantwoordelijkheid, dat dit produkt

Type: XTC II Serienummers: 35-XXXX

waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende geharmoniseerde Europese normen

EN 50081-1 en EN 50082-1

Volgens de bepalingen van de EMC-richtlijn 89/336/EEG, gewijzigd door de richtlijn 91/263/EEG, 92/31/EEG en 93/68/EEG.

Almere, 22 december 2007 J.H. Kloppenburg, Directeur

stempel: handtekening:

DATEQ
audio technologies
De Paal 37
1351 JG Almere
tel. 036-5472222, fax 036-5317776

EC-DECLARATION OF CONFORMITY acc.to art.10.1 EMC directive 89/336/EEC

We, **DATEQ Audio Technologies B.V.**
de Paal 37
1351 JG ALMERE
THE NETHERLANDS

hereby declare, exclusively to our responsibility, that this product

Type: XTC II Serialnrs.: 35-XXXX

to which this declaration applies, is in accordance with the following harmonized European norms

EN 50081-1 and EN 50082-1

According to the regulations of the EMC-directive 89/336/EEG, amended by directive 91/263/EEG, 92/31/EEG and 93/68/EEG.

Almere, December 22th, 2007

J.H. Kloppenburg, managing director

stamp:

DATEQ
audio technologies
De Paal 37
1351 JG Almere
tel. 036-5472222, fax 036-5317776

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GARANTIE BEDINGUNGEN: DATEQ gewährleistet für die Garantiezeit daß dieses Gerät ab dem Zeitpunkt des Ersterwerbs keine Material und Verarbeitungsfehler aufweist. Die Garantiezeit beträgt 12 Monate. Sollten sich während der Garantiezeit Mängel des Gerätes herausstellen, die auf Material- oder Verarbeitungsfehlern beruhen, wird gemäß den nachstehenden Bedingungen DATEQ ohne Berechnung der Arbeits- und Materialkosten das Gerät oder seine schadhaften Teile reparieren. 1. Garantieleistungen werden nur erbracht, wenn die Garantiekarte zusammen mit der Originalrechnung bzw. dem Kassenbeleg, die der Händler dem Verbraucher ausgestellt hat, vorgelegt wird. DATEQ behält sich das Recht vor, Garantieleistungen abzulehnen, wenn nach dem Ersterwerb des Gerätes durch den Verbraucher oder den Händler diese Angaben oder das Seriennummer entfernt oder geändert worden sind. 2. Diese Garantie deckt keinen der folgenden Punkte: (a) regelmäßige Inspektionen, Wartung bzw. Reparatur oder Austausch von Teilen bedingt duch normalen Verschleiß; (b) Transport-, Fahrtkosten und -risiken, die unmittelbar oder mittelbar mit dieser Gerätegarantie zusammenhängen; (c) Schäden an diesem Gerät, die verursacht worden sind durch: Mißbrach und Fehlgebrauch, insbesondere Gebrauch dieses Gerätes für andere als seinen normalen Zweck bzw. unter Nichtbeachtung der DATEQ Bedienungs- und Wartungsanleitungen, und den Anschluß oder Gebrauch dieses Gerätes in einer den in dem Land, in dem das Gerät bebraucht wird, geltenden technischen oder sicherheitstechnischen Anforderungen nicht entsprechenden Weise; Reparaturen duch nicht autorisierte Werkstätten; Unfälle, höhere Gewalt oder andere von DATEQ nicht zu verantwordende Ursachen, insbesondere Blitzschlag, Wasser, Feuer, Störungen der öffentlichen Ordnung und unzureichende Belüftung.

GARANTEE CONDITIONS: DATEQ guarantees this product to be free of defects in materials and workmanship at the time of its original purchase for the period of 12 months. If during this period of guarantee the product proves defective due to improper materials or workmanship, DATEQ will repair or this product or its defective parts on the condetions explained hereafter. 1. The guarantee will be granted only if the correctly filled out guarantee card is presented together with the original invoice/cash ticket issued to the consumer by the retailer. DATEQ reserves the right to refuse guarantee service if this information or the products serial number has been removed or changed after the original purchase of the product. 2. This guarantee covers none of the following: (a) periodic check-ups, maintenance, repair or replacements of parts due to normal wear and tear, (b) home service transport costs and other costs and risks of transport relating directly or indirectly to theguarantee of this product, (c) damage to this product resulting from abuse and misuse, including but not limited to the failure to use this product for its normal purposes or in accordance with DATEQ's instructions on the proper use and maintenance of this product and the installation or the use of this product in a manner inconsistent with the technical or safety standards in force in the country where the product is used, repairs done by non-authorised service stations, accidents, acts of God, or any cause beyond thecontrol of DATEQ, including but not limited to lightning, water, fire, public disturbances and improper ventilation.

CONDITIONS DE GARANTIE:DATEQ garantit que ce produit est exempt de défaut de matière et de fabrication existant lors de l'acquisition originale par le client pour un délai d'un an. Si ce produit s'avère défectueux pendant la période de garantie en raison de matière ou de fabrication incorrecte, DATEQ prendra en charge le produit ou à défaut DATEQ sous les conditions exposées ci-après. 1. La garantie sera seulement assurée si la facture origiale et la carte de garantie remises au consommateur par le distributeur sont présentées. DATEQ se réserve le droit de refuser sa garantie si tout ou partie de ces mentions ou le numero de série de l'appareil a été ou modifié après l'acquisition originale du produit par le client chez le distribiteur. 2. Cette garantie ne couvre aucun des points suivants: (a) les contrôles périodiquies, l'entretien, la réparation et le remplacement de pièces par suite d'usure normale; (b) les frais et les risques de transport directs ou indirects à la mise en oeuvre de la garantie de ce produit; (c) l'endommagement dui produit résultant d'abus et de mauvais usage, en particulier mais non de façon exclusieve à la négligence ou faute l'utilisateur, et l'installation ou l'utilisation de ce produit en contradiction avec les standards techniques ou de sécurité en vigueur dans le pays où le produit est utilisé, reparations faites par les réparateurs non agréés; d'accidents de cas de force majeure ou de toute autre cause hors du contrôle de DATEQ, en particulier mas non de façon exclusieve à la foudre, l'inondation, l'incendie, les troubles publics, des piles qui ont coulé, une mauvaise ventilation.

postzegel
stamp
briefmarke
timbre

DATEQ B.V.
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